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STRUCTURE FILE UPDATES: 4 OCT 2010 HIGHEST RN 1245235-98-6  
 DICTIONARY FILE UPDATES: 4 OCT 2010 HIGHEST RN 1245235-98-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

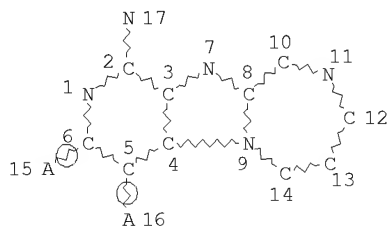
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta l9  
 L3 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE  
 L9 667 SEA FILE=REGISTRY SSS FUL L3

100.0% PROCESSED 3551 ITERATIONS 667 ANSWERS  
 SEARCH TIME: 00.00.01

=> b zcap  
 FILE 'ZCAPLUS' ENTERED AT 18:19:51 ON 05 OCT 2010  
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FILE COVERS 1907 - 5 Oct 2010 VOL 153 ISS 15

FILE LAST UPDATED: 4 Oct 2010 (20101004/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

ZCAplus now includes complete International Patent Classification (IPC)  
reclassification data for the third quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d bib abs hitrn fhitr 112 tot

L12 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)  
 AN 2005:638879 ZCAPLUS  
 DN 143:153410  
 TI Preparation of piperazine, [1,4]diazepane, [1,4]diazocane, and [1,5]diazocane fused imidazo ring compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases  
 IN Kshirsagar, Tushar A.; Griesgraber, George W.; Celebi, Abdulaziz A.; Heppner, Philip D.  
 PA 3M Innovative Properties Company, USA  
 SO PCT Int. Appl., 218 pp.  
 DT CODEN: PIXXD2  
 Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO-----2005066172	A1	20050721	2004WO-US0043474	20041222
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CU, CZ, DE, DK, DM, DS, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SJ, TJ, TM, TR, TT, TZ, UA, UG, US, VE, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AE, AY, KG, KE, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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CA-----2552101	A1	20050721	2004CA-000525101	20041222
EP-----1699792	A1	20060513	2004EP-000815538	20041222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, MK, CY, AS, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU			
CN-----1922178	A	20070228	2004CN-080042200	20041222
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IN-----200602371	A	20070706	2006IN-000002371	20060628
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PRAI 200JUS-00533024P	P	20071129		
2004WO-US0043474	W	20041222		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSLUS DISPLAY FORMAT  
 CS CASREACT 143:153410; MARPAT 143:153410  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Title compds. I [PA, RB = independently H, halo, alk(en)yl, alkoxy, alkylthio, NH2 and derivs.; or RACCRB = (unsubstituted fused hetero/aryl, fused 5- to 7-membered saturated ring; X = a bond, alkylene; Z = (unsubstituted alkylene; with the proviso that the total number of C atoms contributed by Z and Z = 1-3; Y = a bond, SO2, SO2-NH and derivs., CO, etc.; R = halo, OH, alk(en)yl, haloalkyl, alkoxy, alkylthio, NH2 and derivs.; R1 = H, (unsubstituted alk(en)yl, hetero/aryl, etc. with proviso); and their pharmaceutically acceptable salts], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. For example, II was prepared via cyclocondensation of 1,2-diamine derivative III with chloroacetyl chloride, cyclization of imidazoquinoline, ROC-deprotection, chlorosulfonation of amine (not isolated) with MeSO2Cl, oxidation/amination with NH4OH, and TDMSS-deprotection. Certain I modulated cytokine biosynthesis by inhibiting production of interferon  $\alpha$  and/or tumor necrosis factor TNF- $\alpha$  when tested in an in vitro blood cell system.  
 IT 1044675-88-8 1044675-97-9 1044676-02-9  
 RL: PRPH (Prophetic)  
 (Preparation of piperazine, [1,4]diazepane, [1,4]diazocane, and [1,5]diazocane fused imidazo ring compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)

L12 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

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860167-06-2P	860167-08-4P	860167-10-8P
860167-12-0P		

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; prepn. of fused imidazo ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)  
 IT 860167-14-2P 860167-16-4P 860167-18-6P  
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 860167-26-6P 860167-28-8P 860167-30-2P  
 860167-32-4P 860167-34-6P 860167-36-8P  
 860167-38-0P 860167-40-4P 860167-42-6P  
 860167-44-8P 860167-46-0P 860167-48-2P  
 860167-49-3P, 9-(Methylsulfonyl)-2,3,4,8,9,10,11,12-octahydro-1H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine  
 860167-50-6P, 9-(Methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine  
 860167-52-8P, 9-(Methylsulfonyl)-3-(pyridin-3-yl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of fused imidazo ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)

IT 860170-00-9P, 6-amino-9-(methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-3-ol  
 860173-13-3P, 9,10,11,12-Tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine hydrochloride

L12 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

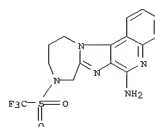
860160-34-5P	11-[(tert-butylidimethylsilyl)oxy]-9-(methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine	
860160-40-3P	860160-41-4P	
9-(Methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine	860167-51-7P, 3-Bromo-9-(methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine	
860167-54-0P	860167-56-2P	860167-58-4P
860167-60-8P	860167-62-0P	860167-64-2P
860167-66-4P	860167-68-6P	860167-70-0P
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860168-92-2P	860168-94-4P	860168-96-6P
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860170-07-6P	860170-09-8P	

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (drug candidate; preparation of fused imidazo ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)

IT 860160-35-6P, 6-Amino-9-(methylsulfonyl)-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-1-ol  
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 860164-19-3P 860164-21-5P 860164-23-7P  
 860164-25-9P

L12 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

860173-16-6P, tert-Butyl 6-amino-11-[(tert-butylidimethylsilyl)oxy]-11,12-dihydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinoline-9(10H)-carboxylate 860173-17-7P  
 11-[(tert-butylidimethylsilyl)oxy]-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine hydrochloride  
 860173-23-3P, 3-Bromo-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine  
 860173-35-9P, tert-Butyl 6-amino-3-benzyloxy-11,12-dihydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinoline-9(10H)-carboxylate  
 860173-36-0P, 3-Benzyloxy-9,10,11,12-tetrahydro-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine dihydrochloride  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; prepn. of fused imidazo ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)  
 IT 1043893-39-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of fused imidazo ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)  
 IT 1044675-88-8  
 RL: PRPH (Prophetic)  
 (Preparation of piperazine, [1,4]diazepane, [1,4]diazocane, and [1,5]diazocane fused imidazo ring compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)  
 CN 1044675-88-8 ZCAPLUS  
 RN INDEX NAME NOT YET ASSIGNED



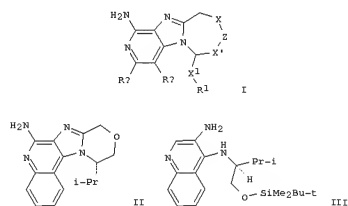
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L13 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 AN 2006/67628 ZCAPLUS  
 DN 1451145757  
 II Preparation of chiral fused [1,2]imidazo[4,5-c] ring compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases  
 IN Griesgraber, George W.; Kshirsagar, Tushar A.; Celebi, Abdulaziz A.; Johannessen, Sarah C.; Danielson, Michael E.; Rice, Michael J.; Wurst, Joshua R.  
 PA 3M Innovative Properties Company, USA  
 SO PCT Int. Appl., 257 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
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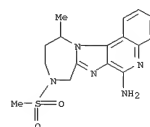
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2005US-00697257P	P	20050707		
2005WO-US0047258	W	20051229		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS CASREACT 1451145757; HARPAT 1451145757  
 GI



AB Title compds. I [X = a bond, straight or branched alkylene, optionally having a substituent at a C other than the C adjacent to a heteroatom; X' = straight or branched alkylene, optionally having a substituent at a C other than the C adjacent to a heteroatom; provided that the sum of the

L13 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 ring C atoms contributed by X and X' = 1-3; Z = O, NH and derivs., N-SO2-NH- and derivs., etc.; X1 = a bond, alk(en/yn)ylene; R1 = (un)substituted alk(en/yn)yl, hetero/aryl, etc.; RA, RB = independently H, halo, alk(en)yl, alkoxy, etc.; or when taken together RA and RB form a (un)substituted fused hetero/aryl ring, or a (un)substituted fused 5 to 7 membered satd. ring; and their pharmaceutically acceptable salts), were prep. as immunomodulators for inducing cytokine biosynthesis in animals (no data) and in the treatment of diseases including viral and neoplastic diseases (no data). For example, II was prep. via cyclocondensation of diamine III (prepn. given) with Et 2-chloroethanimidate-HCl, followed by TBSMS-deprotection in the presence of tetrabutylammonium fluoride/cyclization in THF, oxidn., and amination with NH4OH. Certain I modulated cytokine biosynthesis by inhibiting prodn. of interferon  $\alpha$  and/or tumor necrosis factor TNF- $\alpha$  when tested in an in vitro blood cell system (no data).  
 IT 898818-25-2P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of chiral fused [1,2]imidazo[4,5-c] ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)  
 IT 898818-29-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of chiral fused [1,2]imidazo[4,5-c] ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)  
 IT 898818-25-2P  
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of chiral fused [1,2]imidazo[4,5-c] ring compds. as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)  
 RN 898818-25-2 ZCAPLUS  
 CN Formic acid, compd. with 9,10,11,12-tetrahydro-12-methyl-9-(methylsulfonyl)-8H-[1,4]diazepino[1',2':1,2]imidazo[4,5-c]quinolin-6-amine (1:7) (CA INDEX NAME)  
 CM 1  
 CRN 898818-24-1  
 CMF C16 H19 N5 O2 S



CM 2  
 CRN 64-18-6  
 CMF C H2 O2

O=CH=OH

L13 ANSWER 1 OF 1 SCAPLUS COPYRIGHT 2010 ACS on STN (Continued)

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(FILE 'REGISTRY' ENTERED AT 16:26:33 ON 05 OCT 2010)  
 DEL HIS Y

L1 STR  
 L2 37 L1  
 L3 STR L1  
 L4 36 L3

FILE 'STNGUIDE' ENTERED AT 18:13:21 ON 05 OCT 2010

FILE 'ZCAPLUS' ENTERED AT 18:14:34 ON 05 OCT 2010  
 L5 1 US20070167476 /PN

FILE 'REGISTRY' ENTERED AT 18:14:49 ON 05 OCT 2010

FILE 'ZCAPLUS' ENTERED AT 18:14:49 ON 05 OCT 2010  
 L6 TRA L5 1- RN : 1057 TERMS

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 L7 1057 SEA L6  
 L8 529 L7 AND NRRS>=4  
 L9 667 L3 FULL  
 SAV TEM J895C2/A L9  
 L10 343 L9 AND L8  
 L11 324 L9 NOT L10

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 L12 1 L10  
 L13 1 L11

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FILE 'ZCAPLUS' ENTERED AT 18:19:51 ON 05 OCT 2010

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